

ALW



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PCT09

## RAW SEQUENCE LISTING

DATE: 03/21/2002

PATENT APPLICATION: US/09/719,601

TIME: 15:23:27

Input Set : A:\pf0544pct\_seqlist.txt

Output Set: N:\CRF3\03212002\I719601.raw

```

3 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.
4   BANDMAN, Olga
5   HILLMAN, Jennifer L.
6   TANG, Y. Tom
7   LAL, Preeti
8   CORLEY, Neil C.
9   GUEGLER, Karl J.
10  GORGONE, Gina A.
11  BAUGHN, Mariah R.
13 <120> TITLE OF INVENTION: HUMAN OXIDOREDUCTASE PROTEINS
15 <130> FILE REFERENCE: PF-0544 PCT
C--> 17 <140> CURRENT APPLICATION NUMBER: US/09/719,601
C--> 18 <141> CURRENT FILING DATE: 2002-02-19
20 <150> PRIOR APPLICATION NUMBER: 60/091,177
21 <151> PRIOR FILING DATE: 1998-06-30
23 <160> NUMBER OF SEQ ID NOS: 14
25 <170> SOFTWARE: PERL Program
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 310
29 <212> TYPE: PRT
30 <213> ORGANISM: Homo sapiens
32 <220> FEATURE:
33 <221> NAME/KEY: misc_feature
34 <223> OTHER INFORMATION: Incyte Clone No: 321510
36 <400> SEQUENCE: 1
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39 Ala Gly Asp Leu Val Arg Ala His Pro Pro Leu Glu Glu Arg Ala
40           20           25           30
41 Arg Leu Leu Arg Gly Gln Ser Val Gln Gln Val Gly Pro Gln Gly
42           35           40           45
43 Leu Leu Tyr Val Gln Gln Arg Glu Leu Ala Val Thr Ser Pro Lys
44           50           55           60
45 Asp Gly Ser Ile Ser Ile Leu Gly Ser Asp Asp Ala Thr Thr Cys
46           65           70           75
47 His Ile Val Val Leu Arg His Thr Gly Asn Gly Ala Thr Cys Leu
48           80           85           90
49 Thr His Cys Asp Gly Thr Asp Thr Lys Ala Glu Val Pro Leu Ile
50           95          100          105
51 Met Asn Ser Ile Lys Ser Phe Ser Asp His Ala Gln Cys Gly Arg
52          110          115          120
53 Leu Glu Val His Leu Val Gly Gly Phe Ser Asp Asp Arg Gln Leu
54          125          130          135

```

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55 Ser Gln Lys Leu Thr His Gln Leu Leu Ser Glu Phe Asp Arg Gln
56                               140                               145                               150
57 Glu Asp Asp Ile His Leu Val Thr Leu Cys Val Thr Glu Leu Asn
58                               155                               160                               165
59 Asp Arg Glu Glu Asn Glu Asn His Phe Pro Val Ile Tyr Gly Ile
60                               170                               175                               180
61 Ala Val Asn Ile Lys Thr Ala Glu Ile Tyr Arg Ala Ser Phe Gln
62                               185                               190                               195
63 Asp Arg Gly Pro Glu Glu Gln Leu Arg Ala Ala Arg Thr Leu Ala
64                               200                               205                               210
65 Gly Gly Pro Met Ile Ser Ile Tyr Asp Ala Glu Thr Glu Gln Leu
66                               215                               220                               225
67 Arg Ile Gly Pro Tyr Ser Trp Thr Pro Phe Pro His Val Asp Phe
68                               230                               235                               240
69 Trp Leu His Gln Asp Asp Lys Gln Ile Leu Glu Asn Leu Ser Thr
70                               245                               250                               255
71 Ser Pro Leu Ala Glu Pro Pro His Phe Val Glu His Ile Arg Ser
72                               260                               265                               270
73 Thr Leu Met Phe Leu Lys Lys His Pro Ser Pro Ala His Thr Leu
74                               275                               280                               285
75 Phe Ser Gly Asn Lys Ala Leu Leu Tyr Lys Lys Asn Glu Asp Gly
76                               290                               295                               300
77 Leu Trp Glu Lys Ile Ser Ser Pro Gly Ser
78                               305                               310
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84 <211> LENGTH: 520
85 <212> TYPE: PRT
86 <213> ORGANISM: Homo sapiens
88 <220> FEATURE:
89 <221> NAME/KEY: misc_feature
90 <223> OTHER INFORMATION: Incyte Clone No: 634343
92 <400> SEQUENCE: 2
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94 1 5 10 15
95 Ile Thr Leu Gln Val Gly Thr Gln Asp Ser Phe Ile Ala Ala Val
96 20 25 30
97 Tyr Glu His Ala Val Ile Leu Pro Asn Lys Thr Glu Thr Pro Val
98 35 40 45
99 Ser Gln Glu Asp Ala Leu Asn Leu Met Asn Glu Asn Ile Asp Ile
100 50 55 60
101 Leu Glu Thr Ala Ile Lys Gln Ala Ala Glu Gln Gly Ala Arg Ile
102 65 70 75
103 Ile Val Thr Pro Glu Asp Ala Leu Tyr Gly Trp Lys Phe Thr Arg
104 80 85 90
105 Glu Thr Val Phe Pro Tyr Leu Glu Asp Ile Pro Asp Pro Gln Val
106 95 100 105
107 Asn Trp Ile Pro Cys Gln Asp Pro His Arg Phe Gly His Thr Pro
108 110 115 120
109 Val Gln Ala Arg Leu Ser Cys Leu Ala Lys Asp Asn Ser Ile Tyr

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110		125		130		135									
111	Val	Leu	Ala	Asn	Leu	Gly	Asp	Lys	Lys	Pro	Cys	Asn	Ser	Arg	Asp
112					140					145					150
113	Ser	Thr	Cys	Pro	Pro	Asn	Gly	Tyr	Phe	Gln	Tyr	Asn	Thr	Asn	Val
114					155					160					165
115	Val	Tyr	Asn	Thr	Glu	Gly	Lys	Leu	Val	Ala	Arg	Tyr	His	Lys	Tyr
116					170					175					180
117	His	Leu	Tyr	Ser	Glu	Pro	Gln	Phe	Asn	Val	Pro	Glu	Lys	Pro	Glu
118					185					190					195
119	Leu	Val	Thr	Phe	Asn	Thr	Ala	Phe	Gly	Arg	Phe	Gly	Ile	Phe	Thr
120					200					205					210
121	Cys	Phe	Asp	Ile	Phe	Phe	Tyr	Asp	Pro	Gly	Val	Thr	Leu	Val	Lys
122					215					220					225
123	Asp	Phe	His	Val	Asp	Thr	Ile	Leu	Phe	Pro	Thr	Ala	Trp	Met	Asn
124					230					235					240
125	Val	Leu	Pro	Leu	Leu	Thr	Ala	Ile	Glu	Phe	His	Ser	Ala	Trp	Ala
126					245					250					255
127	Met	Gly	Met	Gly	Val	Asn	Leu	Leu	Val	Ala	Asn	Thr	His	His	Val
128					260					265					270
129	Ser	Leu	Asn	Met	Thr	Gly	Ser	Gly	Ile	Tyr	Ala	Pro	Asn	Gly	Pro
130					275					280					285
131	Lys	Val	Tyr	His	Tyr	Asp	Met	Lys	Thr	Glu	Leu	Gly	Lys	Leu	Leu
132					290					295					300
133	Leu	Ser	Glu	Val	Asp	Ser	His	Pro	Leu	Ser	Ser	Leu	Ala	Tyr	Pro
134					305					310					315
135	Thr	Ala	Val	Asn	Trp	Asn	Ala	Tyr	Ala	Thr	Thr	Ile	Lys	Pro	Phe
136					320					325					330
137	Pro	Val	Gln	Lys	Asn	Thr	Phe	Arg	Gly	Phe	Ile	Ser	Arg	Asp	Gly
138					335					340					345
139	Phe	Asn	Phe	Thr	Glu	Leu	Phe	Glu	Asn	Ala	Gly	Asn	Leu	Thr	Val
140					350					355					360
141	Cys	Gln	Lys	Glu	Leu	Cys	Cys	His	Leu	Ser	Tyr	Arg	Met	Leu	Gln
142					365					370					375
143	Lys	Glu	Glu	Asn	Glu	Val	Tyr	Val	Leu	Gly	Ala	Phe	Thr	Gly	Leu
144					380					385					390
145	His	Gly	Arg	Arg	Arg	Arg	Glu	Tyr	Trp	Gln	Val	Cys	Thr	Met	Leu
146					395					400					405
147	Lys	Cys	Lys	Thr	Thr	Asn	Leu	Thr	Thr	Cys	Gly	Arg	Pro	Val	Glu
148					410					415					420
149	Thr	Ala	Ser	Thr	Arg	Phe	Glu	Met	Phe	Ser	Leu	Ser	Gly	Thr	Phe
150					425					430					435
151	Gly	Thr	Glu	Tyr	Val	Phe	Pro	Glu	Val	Leu	Leu	Thr	Glu	Ile	His
152					440					445					450
153	Leu	Ser	Pro	Gly	Lys	Phe	Glu	Val	Leu	Lys	Asp	Gly	Arg	Leu	Val
154					455					460					465
155	Asn	Lys	Asn	Gly	Ser	Ser	Gly	Pro	Ile	Leu	Thr	Val	Ser	Leu	Phe
156					470					475					480
157	Gly	Arg	Trp	Tyr	Thr	Lys	Asp	Ser	Leu	Tyr	Ser	Ser	Cys	Gly	Thr
158					485					490					495

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159 Ser Asn Ser Ala Ile Thr Tyr Leu Leu Ile Phe Ile Leu Leu Met
160                               500                               505                               510
161 Ile Ile Ala Leu Gln Asn Ile Val Met Leu
162                               515                               520
167 <210> SEQ ID NO: 3
168 <211> LENGTH: 349
169 <212> TYPE: PRT
170 <213> ORGANISM: Homo sapiens
172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <223> OTHER INFORMATION: Incyte Clone No: 1942326
176 <400> SEQUENCE: 3
177 Met Lys Gly Leu Tyr Phe Gln Gln Ser Ser Thr Asp Glu Glu Ile
178   1                               5                               10                               15
179 Thr Phe Val Phe Gln Glu Lys Glu Asp Leu Pro Val Thr Glu Asp
180                               20                               25                               30
181 Asn Phe Val Lys Leu Gln Val Lys Ala Cys Ala Leu Ser Gln Ile
182                               35                               40                               45
183 Asn Thr Lys Leu Leu Ala Glu Met Lys Met Lys Lys Asp Leu Phe
184                               50                               55                               60
185 Pro Val Gly Arg Glu Ile Ala Gly Ile Val Leu Asp Val Gly Ser
186                               65                               70                               75
187 Lys Val Ser Phe Phe Gln Pro Asp Asp Glu Val Val Gly Ile Leu
188                               80                               85                               90
189 Pro Leu Asp Ser Glu Asp Pro Gly Leu Cys Glu Val Val Arg Val
190                               95                               100                              105
191 His Glu His Tyr Leu Val His Lys Pro Glu Lys Val Thr Trp Thr
192                               110                              115                              120
193 Glu Ala Ala Gly Ser Ile Arg Asp Gly Val Arg Ala Tyr Thr Ala
194                               125                              130                              135
195 Leu His Tyr Leu Ser His Leu Ser Pro Gly Lys Ser Val Leu Ile
196                               140                              145                              150
197 Met Asp Gly Ala Ser Ala Phe Gly Thr Ile Ala Ile Gln Leu Ala
198                               155                              160                              165
199 His His Arg Gly Ala Lys Val Ile Ser Thr Ala Cys Ser Leu Glu
200                               170                              175                              180
201 Asp Lys Gln Cys Leu Glu Arg Phe Arg Pro Pro Ile Ala Arg Val
202                               185                              190                              195
203 Ile Asp Val Ser Asn Gly Lys Val His Val Ala Glu Ser Cys Leu
204                               200                              205                              210
205 Glu Glu Thr Gly Gly Leu Gly Val Asp Ile Val Leu Asp Ala Gly
206                               215                              220                              225
207 Val Arg Leu Tyr Ser Lys Asp Asp Glu Pro Ala Val Lys Leu Gln
208                               230                              235                              240
209 Leu Leu Pro His Lys His Asp Ile Ile Thr Leu Leu Gly Val Gly
210                               245                              250                              255
211 Gly His Trp Val Thr Thr Glu Glu Asn Leu Gln Leu Asp Pro Pro
212                               260                              265                              270
213 Asp Ser His Cys Leu Phe Leu Lys Gly Ala Thr Leu Ala Phe Leu

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214	275	280	285
215 Asn Asp Glu Val Trp Asn Leu Ser Asn Val Gln Gln Gly Lys Tyr			
216	290	295	300
217 Leu Cys Ile Leu Lys Asp Val Met Glu Lys Leu Ser Thr Gly Val			
218	305	310	315
219 Phe Arg Pro Gln Leu Asp Glu Pro Ile Pro Leu Tyr Glu Ala Lys			
220	320	325	330
221 Val Ser Met Glu Ala Val Gln Lys Asn Gln Gly Arg Lys Lys Gln			
222	335	340	345
223 Val Val Gln Phe			
229 <210> SEQ ID NO: 4			
230 <211> LENGTH: 332			
231 <212> TYPE: PRT			
232 <213> ORGANISM: Homo sapiens			
234 <220> FEATURE:			
235 <221> NAME/KEY: misc_feature			
236 <223> OTHER INFORMATION: Incyte Clone No: 2395269			
238 <400> SEQUENCE: 4			
239 Met Leu Ala Val His Phe Asp Lys Pro Gly Gly Pro Glu Asn Leu			
240 1 5 10 15			
241 Tyr Val Lys Glu Val Ala Lys Pro Ser Pro Gly Glu Gly Glu Val			
242 20 25 30			
243 Leu Leu Lys Val Ala Ala Ser Ala Leu Asn Arg Ala Asp Leu Met			
244 35 40 45			
245 Gln Arg Gln Gly Gln Tyr Asp Pro Pro Gly Ala Ser Asn Ile			
246 50 55 60			
247 Leu Gly Leu Glu Ala Ser Gly His Val Ala Glu Leu Gly Pro Gly			
248 65 70 75			
249 Cys Gln Gly His Trp Lys Ile Gly Asp Thr Ala Met Ala Leu Leu			
250 80 85 90			
251 Pro Gly Gly Gly Gln Ala Gln Tyr Val Thr Val Pro Glu Gly Leu			
252 95 100 105			
253 Leu Met Pro Ile Pro Glu Gly Leu Thr Leu Thr Gln Ala Ala Ala			
254 110 115 120			
255 Ile Pro Glu Ala Trp Leu Thr Ala Phe Gln Leu Leu His Leu Val			
256 125 130 135			
257 Gly Asn Val Gln Ala Gly Asp Tyr Val Leu Ile His Ala Gly Leu			
258 140 145 150			
259 Ser Gly Val Gly Thr Ala Ala Ile Gln Leu Thr Arg Met Ala Gly			
260 155 160 165			
261 Ala Ile Pro Leu Val Thr Ala Gly Ser Gln Lys Lys Leu Gln Met			
262 170 175 180			
263 Ala Glu Lys Leu Gly Ala Ala Ala Gly Phe Asn Tyr Lys Lys Glu			
264 185 190 195			
265 Asp Phe Ser Glu Ala Thr Leu Lys Phe Thr Lys Gly Ala Gly Val			
266 200 205 210			
267 Asn Leu Ile Leu Asp Cys Ile Gly Gly Ser Tyr Trp Glu Lys Asn			
268 215 220 225			
269 Val Asn Cys Leu Ala Leu Asp Gly Arg Trp Val Leu Tyr Gly Leu			

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/719,601

DATE: 03/21/2002

TIME: 15:23:28

Input Set : A:\pf0544pct\_seqlist.txt

Output Set: N:\CRF3\03212002\I719601.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application Number

L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date